BMP Guidelines for Grant and Loan Eligibility

Nonpoint Category: Agriculture				
BMP	NRCS FOTG	Aquatic Habitat Guidelines	WSU BMP	CZARA 6217 Management Measures
Farm planning (NOT A BMP)				
Site specific plan and design (NOT A BMP)				
Fencing	FOTG 382 FENCE			Agriculture II.E.5.k
Definition A constructed barrier to livestock, wildlife or people.	PURPOSE This practice may be applied as part of a resource management system to: • Facilitate the application of conservation practices that treat the soil, water, air, plant, animal, and human resource concerns.			See FOTG 582
Stream Crossing				Agriculture II.E.5.m
Definition A stabilized area to provide access across a stream for livestock and farm machines. Bridges are included in this BMP				See FOTG
Nose pumps and other watering devices	see FOTG 614			
Power supply to watering devices				
Conveyance Ditch and Canal Lining, Plain Concrete	FOTG 428A IRRIGATION WATER			Agriculture II.F.5.g

	Purpose		See FOTG 388
Definition:	• Improve management of		566 1 0 1 0 300
A fixed lining of impervious	irrigation water		
material installed in an existing or	Prevent waterlogging of land		
newly constructed irrigation field	 Maintain water quality 		
ditch or irrigation canal or lateral.	Reduce water loss		
Water Wells	FOTG 642 WATER WELL		Agriculture II.E.5.i
Water Wens	TOTO 042 WITER WEEE		rigiteditate ii.E.s.i
Definition	PURPOSE		See FOTG 642
A hole drilled, dug, driven, bored,	This practice may be applied as		
jetted or otherwise constructed to	part of a		
an aquifer.	resource management system to		
and any and a second	support the		
	following purpose:		
	• To provide water for		
	livestock, wildlife, irrigation,		
	human, and other uses.		
	To provide for general water		
	needs of farming/ranching		
	operations.		
	To facilitate proper use of		
	vegetation on rangeland,		
	pastures, and wildlife areas.		
	pustures, une writerie ureus.		
Water Gaps	* see FOTG 382		
Watering Facility	FOTG 614 Watering Facility		Agriculture II.E.5.h
D. 6' .'4'	PURPOSE		G FOTO (14
Definition	PURPOSE		See FOTG 614
A device (tank, trough, or other	To provide watering facilities for		
watertight container) for providing	livestock		
animal access to water.	and/or wildlife at selected		
	locations in order to:		
	Protect and enhance		
	vegetative cover through		
	proper distribution of grazing;		

	Provide erosion control through better grassland management; or _ protect streams, ponds and water supplies from contamination by providing alternative access to water.		
Pipelines	FOTG 516 Pipeline		Agriculture II.E.5.f
	Purpose Pipelines are installed for conveying water away from streams		See FOTG 516
Irrigation Water Management	FOTG 449 Irrigation Water		Agriculture II.F.5.a
Definition	Management		See FOTG 449
Irrigation water management is the	PURPOSE		566 1 010 447
process of determining and	This practice is applied as part of a		
controlling the volume, frequency,	resource management system to		
and application rate of irrigation water in a planned, efficient	support one or more of the following:		
manner.	Manage soil moisture to		
	promote desired crop		
	response		
	Optimize use of available		
	water suppliesMinimize irrigation induced		
	soil erosion		
	Decrease non-point source		
	pollution of surface and		
	groundwater resources		
	Manage salts in the crop root zone		
	 Manage air, soil, or plant 		

	micro-climate.		
Irrigation Systems	FOTG 447 IRRIGATION	WSU Publication	Agriculture II.F.5.i
Definition	SYSTEM, TAILWATER RECOVERY	PNW 0287	See FOTG 447
A planned irrigation system in	RECOVERT		5661616117
which all facilities utilized for the	PURPOSE		
collection, storage, and	This practice may be applied as		
transportation of irrigation	part of a conservation management		
tailwater for reuse have been	system to support one or more of		
installed	the following:		
	Conserve irrigation water		
	suppliesImprove offsite water quality		
	• Improve offsite water quanty		
Soil Stabilizers	FOTG 450 Use of ANIONIC		
	POLYACRYLAMIDE (PAM)		
Definition	EROSION CONTROL		
Erosion control through			
application of watersoluble anionic			
polyacrylamide (PAM).	This practice is applied as part of a		
	conservation management system		
	to support one or more of the following:		
	Minimize or control		
	irrigation-induced soil		
	erosion.		
	Reduce wind and/or		
	precipitation erosion.		

Critical area Planting	FOTG 342 CRITICAL AREA PLANTING	See AHG Chapter 6-133	Agriculture II.A.5.g
Definition			See FOTG 342
Establishing permanent vegetation	PURPOSE		
on sites that have or are expected	Stabilize areas with existing		
to have high erosion rates, and on	or expected high rates of soil		
sites that have physical, chemical	erosion by water.		
or biological conditions that	Stabilize areas with existing		
prevent the establishment of	or expected high rates of soil		
vegetation with normal practices.	erosion by wind.		
	Restore degraded sites that		
	cannot be stabilized through		
	normal methods.		
Diversions	FOTG 362 DIVERSION	Not listed as a AHG Technique	Agriculture II.A.5.j
A channel constructed across the	PURPOSE		See FOTG 362
slope generally with a supporting	This practice may be applied as		2001010302
ridge on the lower side.	part of a resource management		
	system to support one or more of		
	the following purposes.		
	Break up concentrations of		
	water on long slopes, on		
	undulating land surfaces, and		
	on land that is generally		
	considered too flat or		
	irregular for terracing.		
	Divert water away from		
	farmsteads, agricultural waste		
	systems, and other		
	improvements.		
	Collect or direct water for		
	water-spreading or water-		
	harvesting systems.		
	• Increase or decrease the		
	drainage area above ponds.		

	 Protect terrace systems by diverting water from the top terrace where topography, land use, or land ownership prevents terracing the land above. Intercept surface and shallow subsurface flow. Reduce runoff damages from upland runoff. Reduce erosion and runoff on urban or developing areas and at construction or mining sites. Divert water away from active gullies or critically eroding areas. Supplement water management on conservation cropping or stripcropping systems. 		
Fencing on Public Property*			
Acquisition/installation of fencing along stream	(see FOTG 382, as long as it fulfills purpose)		
Installation of fencing off stream*	(see FOTG 382, as long as it fulfills purpose)		
Acquisition/installation of side fencing	(see FOTG 382, as long as it fulfills purpose)		

Nonpoint Category: Forest Practices				
BMP	NRCS FOTG	Aquatic Habitat Guidelines	WSU BMP	CZARA 6217 Management Measures
Critical area Planting	FOTG 342 CRITICAL AREA PLANTING	See AHG Chapter 6-133		
Definition				
Establishing permanent vegetation on sites that have or are expected	PURPOSEStabilize areas with existing			
to have high erosion rates, and on sites that have physical, chemical	or expected high rates of soil erosion by water.			
or biological conditions that	• Stabilize areas with existing			
prevent the establishment of vegetation with normal practices.	or expected high rates of soil erosion by wind.			
	Restore degraded sites that			
	cannot be stabilized through normal methods.			
Sediment control basin	SEDIMENT CONTROL BASIN	Not listed as a AHG Technique	WSU Publication	Agriculture II.A.5.p
Sediment control susm	FOTG 350	Two instead as a first reemingue	EB 1109	rigiteditate 11.71.5.p
Definition	PURPOSE			See FOTG 350
A basin constructed to collect and	Preserve the capacity of			
store debris or sediment.	reservoirs, wetlands, ditches,			
	canals, diversion, waterways,			
	and streams			
	Prevent undesirable			
	deposition on bottom lands and developed areas			
	 Trap sediment originating 			
	from construction sites or			
	other disturbed areas			
	Reduce or abate pollution by			
	providing basins for			
	deposition and storage of silt,			
	sand, gravel, stone,			
	agricultural waste solids, and			

	other detritus	
Channel revegetation	FOTG 322 CHANNEL BANK	
0	VEGETATION	
Definition		
Establishing and maintaining	Purpose	
vegetative cover on channel banks,	Stabilize channel banks and	
berms, spoil, and	adjacent areas and reduce	
	erosion and sedimentation.	
	Maintain or enhance the	
	quality of the environment, including visual aspects and	
	fish and wildlife habitat.	
	Tish and whethe habitat.	
Tree/shrub Revegetation	FOTG 612 TREE /SHRUB	
0	ESTABLISHMENT	
Definition		
Establishing woody plants by	PURPOSE	
planting seedlings or cuttings,	This practice may be applied as	
direct seeding, or natural	part of a resource management	
regeneration.	system to support the following:	
	To establish woody plants for forest products, wildlife	
	habitat, long-term erosion	
	control and improvement of	
	water quality, treat waste,	
	reduction of air pollution,	
	sequestration of carbon,	
	energy conservation, and	
	enhance aesthetics.	
C4 II-L:4-4 I	EOTC 205	
Stream Habitat Improvement	FOTG 395 STREAM HABITAT	
Maintain, improve, or restore	IMPROVEMENT AND	
physical, chemical, and biological	MANAGEMENT	
functions of a stream.		

	PURPOSES This practice may be applied as part of a resource management system to support the following purposes: Provide suitable habitat for desired aquatic species and diverse aquatic communities Provide channel morphology and associated riparian characteristics important to desired aquatic species Provide aesthetic values and recreation opportunities associated with stream habitats such as angling and fish viewing		
Planting trees for future harvesting*	Not listed as a FOTG	Not listed as a AHG Technique	
Maintaining riparian plantings	see FOTG 612 & 322		
Channel realignment		See Chapter 6-189	
Definition The alteration of channel profile, planform, , pattern, cross section, bed elevation, and/or channel location.		The purpose of channel modification is to restore or create an equilibrium condition in the stream reach.	
Channelization	Not listed as a FOTG	Not listed as a AHG Technique	

Nonpoint Category: Urban/Rural				
ВМР	NRCS FOTG	Aquatic Habitat Guidelines	WSU BMP	CZARA 6217 Management Measures
Septic system surveys			WSU Publication EB 1671	
Septic system repair/replacement*				
Community systems: planning, design and construction				
System testing (dye tests) (NOT A BMP)				
OSSS O and M programs			WSU Publication EB0707	Urban Areas VB.4.a .b .h
Individual Residential storm water				
infiltration treatment and collection systems (eg, rain				
gardens, biofiltration swales) on private property				
Individual residential rain gardens and biofiltration swales as part of riparian restoration projects				

BMP	NRCS FOTG	point Category: Habitat Alte Aquatic Habitat Guidelines	WSU BMP	CZARA 6217 Management
DIVII	NRCSTOTG	Aquatic Habitat Guidennes	WSC BIII	Measures
Streambank Protection	FOTG 580 STREAMBANK AND SHORELINE	See Chapter 6 of AHG		
DEFINITION	PROTECTION	Flow-redirection techniques		
Treatment(s) used to stabilize and		•		
protect banks of streams or	PURPOSE	Structural techniques		
constructed channels, and	To prevent the loss of land or	_		
shorelines of lakes, reservoirs, or	damage to land uses, or other	Biotechnical techniques		
estuaries.	facilities adjacent to the			
	banks, including the			
	protection of known			
	historical, archeological, and			
	traditional cultural properties.			
	To maintain the flow or			
	storage capacity of the water			
	body or to reduce the offsite			
	or downstream effects of			
	sediment resulting from bank			
	erosion.			
	• To improve or enhance the			
	stream corridor for fish and			
	wildlife habitat, aesthetics,			
	recreation.			

Channel Stabilization	FOTG 584 CHANNEL	See Chapter 6 of AHG	
	STABILIZATION		
DEFINITION		Flow-redirection techniques	
Measure(s) used to stabilize the	PURPOSE		
bed or bottom of a channel	This practice may be applied as	Structural techniques	
	part of a conservation management system to support one or more of	Biotechnical techniques	
	the following:	Biotechnical techniques	
	Maintain or alter channel bed		
	elevation or gradient		
	Modify sediment transport or		
	deposition		
	Manage surface water and		
	ground water levels in		
	floodplains, riparian areas,		
	and wetlands.		
Installation of rip rap		Chapter 6-67 Riprap	
Definition		APPLICATION	
Riprap is a type of bank armoring		Riprap is typically used in bank	
consisting of rock, typically		protection and reinforcement of	
bedded upon a filter layer of		new stream alignments.	
gravel or synthetic fabric.			
Channel modification	Not listed as a FOTG	Chapter 6-189 Channel	
D 00 1.1		modification	
Definition The alteration of sharpel grafile		ADDI ICATION	
The alteration of channel profile, pattern, cross section, bed		APPLICATION Channel modification techniques	
elevation, etc.		can be used at a site to alleviate	
Cicvation, etc.		bank –erosion problems.	
		Modifications include restoring	
		previously straightened stream	
		reach to its historic planform, and	
		profile.	

Armoring of the toe*		Chapter 6-79. LOG TOES	Streambank and Shoreline Erosion IV. A.4.c
Definition		APPLICATION	17.71.4.0
The toe refers to that portion of the		Log toes play an important role in	Toe Protection
streambank that extends from the		bioengineered approaches to	
channel bottom up to the lower		streambank protection and in	
limit of vegetation.		reshaped banks	
C		1	
Installation of log structures	See FOTG 584	Chapter 6-31 Engineered Log	
		Jams	
Definition			
Engineered log jams are		APPLICATION	
collections of large woody debris		Engineered log jams are used to	
that redirect flow and provide		realign a channel or redirect flow	
stability to a streambank.		away from a streambank to protect	
		it from erosional forces.	
Installation of root wads	see FOTG 322	See Chapter 6-79	
Riparian Buffers	FOTG 391 Riparian Forest	Chapter 6-201 Riparian Buffer	
	Buffers	Management	
Definition			
Riparian refers to that area to a	PURPOSES	APPLICATION	
river or stream that is linked to the	Create shade to lower water	Buffers are a primary technique of	
moisture regime of the streamside	temperatures to improve	bank stabilization, provide for	
environment	habitat for aquatic organisms.	wood recruitement, slow down	
	Provide a source of detritus	flow, reduce sheer, and	
Buffers are:	and large woody debris for	temperature improvement	
An area of predominantly trees	aquatic and terrestrial		
and/or shrubs located adjacent to	organisms.		
and up-gradient from watercourses	Create wildlife habitat and		
or water bodies.	establish wildlife corridors.		
	Reduce excess amounts of		
	sediment, organic material,		
	nutrients and pesticides in		
	surface runoff and reduce		

	excess nutrients and other		
	chemicals in shallow ground		
	water flow.		
	Provide a harvestable crop of		
	timber, fiber, forage, fruit, or		
	other crops consistent with		
	other intended purposes.		
	Provide protection against scour erosion within the		
	floodplain.		
	Restore natural riparian plant		
	communities.		
	 Moderate winter temperatures 		
	to reduce freezing of aquatic		
	over-wintering habitats.		
	• To increase carbon storage.		
Herbaceous cover	FOTG 390 RIPARIAN	Chapter 6-133 Herbaceous	
	HERBACEOUS COVER	Cover	
Definition			
Herbaceous cover is a bank	PURPOSE	APPLICATION	
stabilization technique that	This practice may be applied as	A typical application as a stand	
consists of planted or installed	part of a	alone treatment is on a streambank	
herbaceous vegetation.	resource management system to	that has a relatively stable toe but	
Riparian herbaceous cover consists	support the	has poor vegetation cover and	
of grasses, grasslike plants, and	following purposes:Riparian areas provide habitat	possibly some surficial erosion.	
forbs.	(food, shelter, and water) for		
10103.	aquatic and terrestrial		
	organisms.		
	Intercept direct solar		
	radiation, create shade,and		
	increase the depth to width		
	ratio to help maintain or		
	restore suitable water		

	temperatures for fish and other aquatic organisms while providing a milder microclimate for wildlife. Improve and protect water quality by reducing the amount of sediment and other pollutants, such as pesticides, organic, and nutrients in surface runoff as well as nutrients and chemicals in shallow ground water flow Help stabilize the channel bed and streambank. To serve as corridors to provide landscape linkages between existing habitats. Provide room for watercourses to establish geomorphic stability. To manage existing riparian herbaceous habitat to improve or maintain desired plant		
Road management and abandonment plans (RMAPs)	*not listed in NRCS FOTGs	Not listed in the AHGs	
(NOT A BMP) Grass buffer strips	FOTG 741 GRASS BUFFER STRIPS		
Definition	DYDDOGDG		
Permanent strips of grass or grass-	PURPOSES This practice may be applied as		
legume mixtures arranged as nearly as possible on the contour,	This practice may be applied as		
placed on the most erodible	part of a resource management system to support the following		
placed off the most crodible	system to support the following		

segment(s) of the field.	purposes: Reduce sheet and rill erosion Reduce transport of sediment and other water-borne contaminants down-slope, onsite or off-site Enhance upland wildlife habitat		
Development of easement			
agreement (NOT A BMP) Site monitoring & and follow-up maintenance	(Part of most FOTGs and BMPs)		
Site preparation work (eg, blackberry removal)	(Part of most FOTGs and BMPs)		
Lakeshore riparian installation	*		
Wetland restoration	FOTG 657 Wetland Restoration		
Definition A rehabilitation of a drained or degraded wetland where the soils, hydrology, vegetative community, and biological habitat are returned to the natural condition to the extent practicable.	PURPOSE This practice may be applied as part of a resource management system to support the following purpose: To restore hydric soil conditions, hydrologic conditions, hydrophytic plant communities, wetland functions that occurred on the disturbed wetland site prior to modification to the extent practicable.		
Creating wetlands	FOTG 658 Wetland Creation		

Definition A wetland that has been created on a site location which historically was not a wetland or is a wetland but the site will be converted to a wetland with a different hydrology, vegetation type, or function than naturally occurred on the site.	PURPOSE This practice may be applied as part of a resource management system to support the following purpose: To create wetlands that have wetland hydrology, hydrophytic plant communities, hydric soil conditions, and wetland functions and/or values.
Land acquisition for wetlands	
protection, restoration,	
construction	

	N	Jonpoint Category: Recreati	on	
BMP	NRCS FOTG	Aquatic Habitat Guidelines	WSU BMP	CZARA 6217 Management Measures
Marina Pumpouts				Marinas and Boats II.G.4.
				a. pump out maintenance
Definition				b. pump out inspections
A station where boat sewage can				
be pumped and stored to reduce				
the release of sewage to surface waters.				
Pumpout Signage				Marinas and Boats II.G.4.d
Tumpout Signage				Marinas and Boats 11.0.1.d
Definition				and
Signs explaining the availability				
and use of pumpout facilities.				Marinas and Boats III.F.4.a
Fish Waste Management				Marinas and Boats III.B.4.
Definition				c. Educate boaters
Promote sound fish waste				or Educate Councils
management through a				d. Implement fish composting
combination of fish-cleaning				where appropriate
restrictions, public education, and				
proper disposal of fish waste.				
Sediment Basin	FOTG 350 SEDIMENT BASIN			
DEFINITION	PURPOSE			
A basin constructed to collect and	• Preserve the capacity of			
store debris	reservoirs, wetlands, ditches,			
	canals, diversion, waterways,			
	and streams			
	Prevent undesirable			
	deposition on bottom lands			
	and developed areas			

• Trap sediment originating
from construction sites or
other disturbed areas
Reduce or abate pollution by
providing basins for
deposition and storage of silt,
sand, gravel, stone,
agricultural waste solids, and
other detritus

Nonpoint Category: Other					
BMP	NRCS FOTG	Aquatic Habitat Guidelines	WSU BMP	CZARA 6217 Management Measures	
Education, outreach, information				Weasures	
signage					
Pledge programs					
School programs					
Impact studies					
Set up of local loan funds by					
recipients					
Septage treatment					